

Application No. 10/071,093
Amendment dated June 4, 2003
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Amendments to the Claims

1. (newly amended) A three dimensional puzzle comprising fifteen geometrically different components which can be interconnected to form a four by four by four cube, the four by four by four cube is subdivided into sixty four equally sized smaller cubes, each of the fifteen individual pieces comprises from one to six of such smaller cubes interconnected to one another to form a unique three dimensional shape, the fifteen pieces comprising one piece with one small cube, one piece with three small cubes having two small cubes adjoined to adjacent sides of a third base cube, six pieces with four small cubes, a first four cube piece piece having a first base cube having two other cubes joined to adjacent sides and a fourth cube joined to a top surface, a second four cube piece having three cubes connected in series and a fourth cube connected to the adjacent side of the first cube in the three cube series, a third four cube piece having two cubes joined side by side with a third cube extending forwardly from the side of the right hand of the joined cubes and the fourth cube extending rearwardly from the left hand at the joined cubes and in the same plane as the two joined cubes, a fourth four cube piece in the shape of a tee having three cubes joined in series and the fourth cube joined at the side of the middle cube in the series, and a fifth and sixth four cube pieces being mirror images of one another and each having two sets of two cubes joined in series with a two cube set interconnected perpendicular to one another at side surfaces of end cubes six pieces with five small cubes, a first five cube piece having a base cube with three cubes joined to adjacent sides, and the fifth cube being joined to the top surface of the base cube, a second five cube piece having three cubes joined to one another in series with a fourth cube joined to the side of the base cube and the fifth cube joined to the side of the middle cube in the series opposite the side in which the fourth cube lays, a third five piece cube having a four cube configuration similar to piece 8 with a fifth

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cube attached to the top surface of the right hand of the two joined cubes, a fourth five cube piece in the shape of a tee having three cubes across the top and two cubes joined to the side of the middle cube in the top, a fifth five cube piece having a base cube with an individual cube joined to one side surface and two cubes in series joined to a second adjacent side surface with a fifth cube joined to the top surface of the base cube, and a sixth five cube piece having a base of three cubes in series with a fourth cube joined to the left side of the end most of the cubes in the series, and the fifth cube joined to top the surface of the middle cube in the series and one piece with six small cubes having four cubes joined to each of the sides of the base cube and the sixth cube being joined to the top surface of the base cube.

2. (original) A three dimensional puzzle according to claim 1 wherein the three dimensional puzzle is constructed of a plurality of small wooden cubes joined to one another to form the individual pieces.

3. (original) A three dimensional puzzle according to claim 1 wherein the three dimensional puzzle is provided as an electronic game.

4. (original) A three dimensional puzzle according to claim 1 wherein the three dimensional puzzle is provided as an electronic encryption system in association with a spatial coordinate reference system to be used as an encryption device for an electronic or computer security access code.